NOTICE
PLEASE READ
INSTALLATION INSTRUCTION
BEFORE INSTALLING
THIS PRODUCT

TO PROFESSIONAL INSTALLERS:
Please leave this instruction booklet with the fan on completion of the installation.

Silavent

Installation Instructions

MAYFAIR
Wall/Ceiling Fan

Manufactured in the UK by
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Polypipe

Description

The Mayfair is a cartridge type centrifugal extractor fan. It is fitted with a maintenance free rubber mounted motor. The cartridge system permits the fan to be removed from the wall or ceiling without disturbing the ductile wiring or wall fittings. The facility greatly simplifies maintenance and cleaning procedures.

On new build and renovation projects the Mayfair 2000 fan permits all the installation work to be carried out in advance of the fan being fitted, thereby reducing the possibility of theft or damage. The Mayfair 2000 range is available with a wider range of features than any other extractor fan. It is a high quality product and will give many years of reliable service.

APPLICATION

BATHROOMS, TOILETS, UTILITY ROOMS, LOBBIES AND HALLWAYS

The Mayfair 2000 complies with all current Building Regulations.

	Extract Volume High Speed		Extract Volume Low Speed
Model 70	70m³/h (20 l/s)	-	43m³/h
Model 100	97m³/h (27 l/s)	-	50m³/h
Model 140	140m³/h (39 l/s)		

Options	**Product Codes**		
	Model 70	**Model 100**	**Model 140**
Single Speed	MSS 070B	MSS 100B	MSS 140B
Single Speed/Pull-Cord	MPC 070B	MPC 100B	MPC 140B
Single Speed/Time Delay	MTD 070B	MTD 100B	MTD 140B
Twin Speed	MTS 070B	MTS 100B	–
Twin Speed/Time Delay	MTT 070B	MTT 100B	–
Single Speed/Condensation Control/Time Delay	MCC 070B	MCC 100B	MCC 140B
Twin Speed/Time Delay/Condensation Control for Remote Switching with Additional Pull-Cord Boost	MCT 070B	MCT 100B	–
Single Speed/ Infra Red Control	MIR 070B	MIR 100B	MIR 140B
Building-in Frame	MAY 905B	MAY 905B	MAY 905B
Surface Mounting Box	MAY 504A	MAY 504A	FLA 106A

IMPORTANT: EITHER A BUILDING-IN FRAME, SURFACE MOUNTING BOX OR FLAT DUCT WALL OR CEILING BOX ARE REQUIRED FOR FIXING THE ABOVE.

Further Information

WARNING
Isolate power supply before removing front cover or cleaning fan unit.

TIMER ADJUSTMENT
All models with timers
To adjust the timer, the front cover must be removed. To do this, remove the retaining screw on the bottom edge and lift off cover. It is not necessary to remove the fan from its mounting. The timer adjuster is clearly marked. With a small screwdriver turn anti-clockwise for less overrun time. The timer range is approximately 30 seconds to 25 minutes.

CONDENSATION CONTROL ADJUSTMENT
All models with condensation controls
To adjust the condensation control, the front cover must be removed. To do this remove the retaining screw on the bottom edge and lift the cover off. It is not necessary to remove the fan from its mounting. The condensation control adjuster is clearly marked. With a small screwdriver turn anti-clockwise for less sensitivity and clockwise to increase sensitivity. The condensation control range is from 50% RH to 90% RH. The control is set approximately half way at the factory. The condensation control may be tested by breathing through the sensor grille on the front cover.

Note. There is a short delay between breathing through the grille and the fan starting. Do not use steam from a kettle to test the unit.

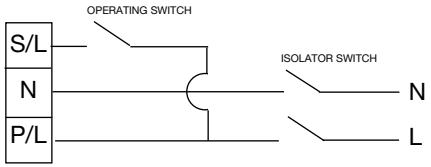
CLEANING/MAINTENANCE
From time to time the fan unit will need cleaning. To do this, first isolate power supply. Remove front cover as described above. Remove the fan from its mounting by undoing the four corner screws. Dust the fan from its mounting by undoing the four corner screws. Dust the fan unit with a dry brush. Do not immerse in water. The front cover can be washed in warm soapy water. The filter fitted in filtered fans can be washed by hand in warm soapy water. Hang filter up to dry. Do not wring. The inlet/retaining grille can be washed as the front cover.

GUARANTEE
This product is guaranteed against faulty manufacture for a period of two years.

WARNING: Failure to comply with installation instructions and cautionary notes may invalidate warranty.

Models

MTD 070B	100B	140B
MTS 070B	100B	
MTT 070B	100B	
MCC 070B	100B	140B
MCT 070B	100B	



FRAME TERMINALS

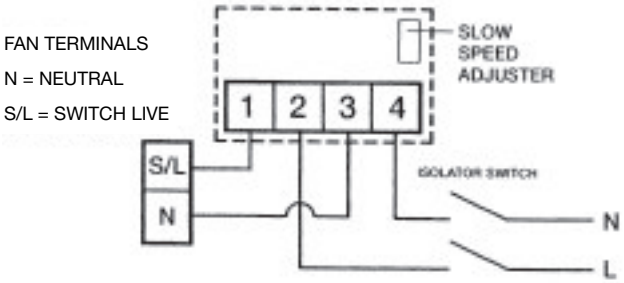
S/L = SWITCH LIVE

N = NEUTRAL

P/L = PERMANENT LIVE

NOTE: THE OPERATING SWITCH MUST BE SINGLE POLE

Models
MSS 140B
When used with speed controller (ANC 814A)



SPEED CONTROL TERMINALS

1 FAN LIVE OUT

2 LIVE IN

3 FAN NEUTRAL OUT

4 NEUTRAL IN

CAUTION

Fans incorporating electronic control systems may be damaged if used in conjunction with fluorescent lamps.

If in doubt we recommend you contact our customer services department on 08443 715 523.

A guide to Ventilation

WHERE TO SITE YOUR FAN

Incorrect siting of an extractor fan can severely impair its efficiency. It is therefore important that the fan is correctly sited using the following principles:

- To ensure maximum air flow through the whole room, mount in the wall or ceiling furthest from the air inlet point and at high level.
- Do not position a fan where temperatures are likely to exceed 40ºC.
- When installing in a room with an open fire or stove without a balanced flue, ensure that there is sufficient replacement air to prevent the fan drawing air back down the flue.
- A 230 Volt fan installed in a bathroom must not be within reach of a person using the bath or shower.
- Always use an in-Duct or Low Voltage Fan (SELV) to ventilate a shower cubicle

WARNING:

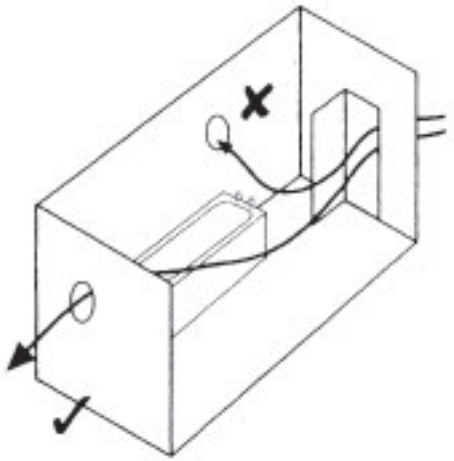
Positioning the fan unit must be so as to avoid the back flow of gases from open flue or other open fire appliances.

Also to prevent combustion gases entering the air inlet, the air inlet must not be positioned above or within 1½ metres of a combustion flue vent.

Building Regulation Requirements

Room	**Extract Rate**
Bathroom/shower room with or without toilet	54m³h (15 l/s)
Toilet	21.6m³h (6 l/s)
Non domestic sanitary accommodation (and/or washing facilities)	21.6m³h (6 l/s) per w/c or 3 air changes per hour.

Rooms without opening windows require fans to be fitted with 15 minute overrun timers.



NOT FOR USE IN SHOWER CUBICLES OR ABOVE BATHS FITTED WITH A SHOWER.

MAX ROOM TEMPERATURES 40ºC

Product Function Guide

Single Speed	MSS 070B, MSS 100B, MSS 140B. Single speed fans requiring external switching.
Single Speed with pull/cord switch	MPC 070B, MPC 100B, MPC 140B. Single speed fans with integral pull-cord switch.
Single Speed with time delay	MTD 070B, MTD 100B, MTD 140B. Single speed fan with integral adjustable timer. Normally operated via light switch.
Twin Speed	MTS 070B, MTS 100B Twin speed fans designed to run on slow speed when room is unoccupied and on high speed when room is occupied. Normally operated via light switch.
Twin Speed with time delay	MTT 070B, MTT 100B Twin speed fans designed to run on slow speed when room is unoccupied and on high speed when room is occupied. This product has an adjustable overrun timer that allows the fan to run on high speed for a set time after the room has been vacated. Normally operated via light switch.
Single Speed with condensation control and time delay	MCC 070B, MCC 100B, MCC 140B. Adjustable condensation control turns fan on automatically when humidity reaches a preset level and off when humidity drops below that level. When not operating on humidity the fan functions at the single speed with time delay. Manual operation is normally via the light switch.
Twin Speed with time delay/ condensation control for remote switching with additional pull-cord boost	MCT 070B, MCT 100B Adjustable condensation control switches onto slow speed when humidity reaches a preset level and off when humidity drops below that level. The fan can be switched onto high speed (boost) using a remote switch (normally via a light switch). When the high speed is turned off an adjustable timer keeps the fan running on high speed for a preset time. Alternatively the fan can be switched on to high speed using the integral pullcord switch. The pullcord switch works independently from the remote switch. When either the remote switch or pullcord switch is operated a red indicator is illuminated.

Wiring Installation

WARNING: ISOLATE ELECTRICITY SUPPLY BEFORE COMMENCING WORK

WIRING REQUIREMENTS FOR DOMESTIC ELECTRIC FANS

It is recommended that fans be connected into the lighting circuit (see caution note on page 10) with double pole (3mm) isolation, provided before the room light switch and suitably fused, in accordance with I.E.E. Regulations.

Wall and ceiling mounted fans for fixed wiring should be connected to the power supply via a cable with solid conductors of 1 to 1.5mm^2 only.

IF IN DOUBT CONSULT A QUALIFIED ELECTRICIAN

IMPORTANT

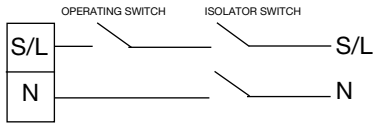
Surface mounting box (FLA 106A) and flat duct systems are manufactured from sheet metal and therefore require earthing.

NOTE

The Mayfair 2000 extractor fan and its mounting systems (with the exception of the above) are double insulated and do not require earthing. The mounting system is provided with an earth termination for convenience only.

Models

MSS 070B, 100B 140B



FRAME TERMINALS

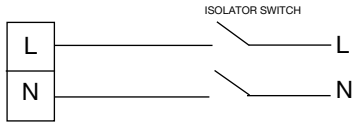
S/L = SWITCH LIVE

N = NEUTRAL

Models

MPC 070B, 100B 140B

MIR 070B, 100B, 140B



FRAME TERMINALS

L = LIVE

N = NEUTRAL

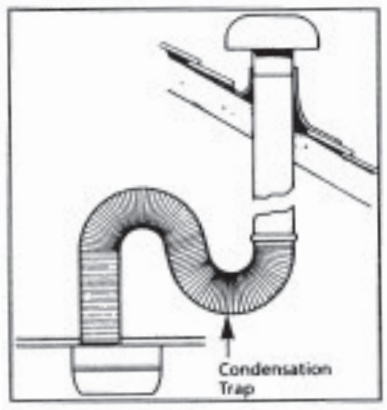
SURFACE MOUNTED

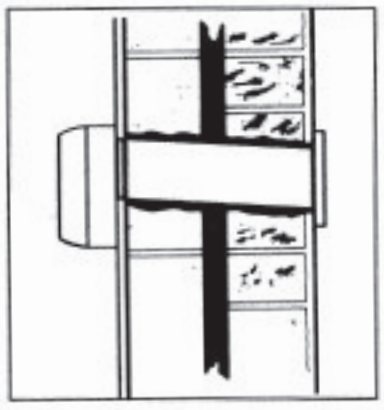
There are two types of surface mounting boxes. Fan models 070 and 100 require type MAY 504A and models 140 require type FLA 106A.

For installation on either wall or ceiling, follow the same procedures as frame mounted fans with the exception that the discharge duct needs to be flush with the surface of the inside wall or ceiling, to meet up with the discharge outlet of the surface mounting box.

Please refer to pages 9/10 for relevant wiring diagrams. When fitting the 070 and 100 models into surface mounting box (MAY 504A) it is necessary to remove the fan motor cover. To do this, remove the motor cover retaining screw. Ease front cover clear of the two clips. The motor cover may be discarded. It is not necessary to remove the motor cover from the 140 models to fit them into their surface mounting box (FLA 106A).

To fit the fan into the surface mounting box, first remove it's front cover. This is retained by a screw on the bottom edge. Enter the electrical contact pins and discharge spigot into their sockets and push gently into position. Retain the fan with four 6mm screws supplied. Refit front cover.





Product Function Guide

Single Speed infra red control (P.I.R.)

MIR 070B, MIR 100B, MIR 140B.
These fans are operated by a passive infra-red sensor detecting movement. The range of the sensor is about 5 metres with an operational arc of 15 degrees from the centre of the sensor. The control unit features an adjustable timer. This allows the fan to run for a preset time after the last movement within the range of the sensor has been detected. **Important: Passive infra red operated fans must not be installed above a heater or radiator.**

ELECTRICAL SUPPLY
230V AC~50HZ

MODEL	SLOW SPEED	HIGH SPEED
070	20W	35W
100	20W	50W
140	–	60W

Installation using building-in frame

May 905B

WALL MOUNTED

In the chosen position (as high on the wall as possible) cut a hole through the wall to take a 100mm duct for the fan discharge. This should slope downwards towards the outside to allow for condensation drainage.

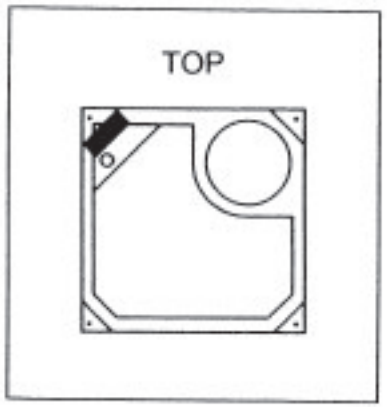
When this is done, position the building-in frame with the discharge outlet at the top right over the duct hole. Mark around the frame and cut an aperture to take the frame and fan. It is important that the front edge of the frame is flush with the surface of the wall.

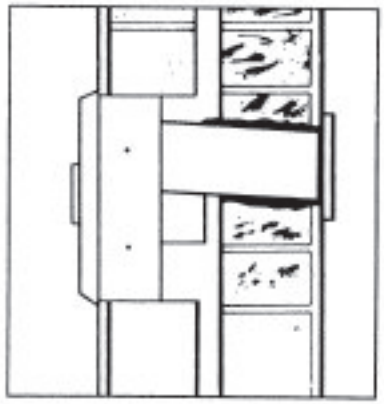
If fitting in a solid wall the aperture should be at least 115mm deep. If installing in a cavity wall with loose thermal insulation you will need to make a cavity liner.

When all the cutting is done, grout the frame into position making sure that the front edge of the frame is flush with the wall. When the frame is in position, fit the discharge duct into position from the outside and trim to length. Before grouting into position, seal the duct to the building-in frame spigot. When duct is in position fit discharge grille (ANC 413D).

While fitting the building-in frame, provision must be made for the power supply cable. Relevant wiring diagrams are on pages 9/10.

To fit the fan, first remove the front cover, this is retained by a screw on the bottom edge. Enter the electrical contact pins and discharge into their sockets and push gently into position. Retain fan with the four 6mm screws supplied. Refit front cover.





CEILING MOUNTED

Select a suitable position on ceiling for fan. Ensure that the chosen position is between and square to the roof joists. Using the building-in frame as a template, mark and cut out the square hole to fit the frame into. Cut and fit two noggins to fit between the joists. Position them alongside the frame aperture so they will support the frame when it is in position. Fit the frame into position ensuring the front edge is flush with the ceiling surface. Secure firmly by screwing through the holes in the side of the frame into the joists or noggins.

The discharge from the fan may be ducted through a roof cowl or through the eaves. If ducting through a cowl, provision must be made for condensation drainage. A condensation trap can be made from flexible ducting as illustrated or you may use a purpose made product (ANC 582A).

If discharge is to exit through the eaves, the duct must slope downwards towards the outside to allow for condensation drainage. To ensure maximum efficiency from the fan, flexible ducting and bends must be kept to a minimum.

Please refer to pages 9/10 for relevant wiring diagrams.

To fit the fan first remove the front cover. This is retained by a screw on the bottom edge. Enter the electrical contact pins and discharge into their sockets and push gently into position. Retain fan with the four 6mm screws supplied and refit the front cover.